

# Courtney Douglass Brown

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## ACADEMIC POSITION

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2017- Assistant Professor, Center for Creative Computation  
Southern Methodist University, Dallas, TX

## EDUCATION

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2017 DMA, Interdisciplinary Digital Media and Performance  
Arizona State University, Tempe, AZ  
Dissertation: *Interactive Tango Milonga*: An exploration of the experience of connection via an interactive system giving tango dancers agency over music in the social dance context  
Committee: Garth Paine (Chair), Sabine Feisst, Pavan Turaga

2008 MA, Electroacoustic Music  
Dartmouth College, Hanover, NH  
Thesis: *The Aesthetics of Losing Control*: A phenomenological investigation of fractured modes of embodied experience via musical interfaces designed to cause performer failure  
Committee: Newton Armstrong (Chair), Larry Polansky, Michael Casey

2002 BS, Magna Cum Laude, Music and Computer Science  
Loyola University, New Orleans, LA

## GRANTS, AWARDS, RESIDENCIES

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### International and National Grants, Awards, and Residencies

2021 SloMoCo (ACM Movement & Computing Conference 2021) Micro-residency, Summer/Fall for *Skin Hunger*

2015 Prix Ars Electronica, Honorary Mention in Digital Musics & Sound Art for *Rawr! A Study in Sonic Skulls*  
International Computer Music Conference (ICMC) 2015 Best Student Music Submission Award for *How to Speak Dinosaur: Courtship*

2014 2013-14 Fulbright US Student Research Award, Music Composition: Buenos Aires, for *Interactive Tango Milonga*  
Love of Learning Grant, Phi Kappa Phi  
New Music USA Grant, collaborator composer for Meehan/Perkins Duo Submission

2009 Associate Artist with Mark Applebaum, Atlantic Center for the Arts, New Smyrna Beach, FL  
ASCAP Foundation Morton Gould Young Composer Awards, finalist for *losing love in magnetic time*

1998 National Merit finalist

### Selected University Grants, Honors, and Awards

2016 ASU, 2016-17 Dissertation Fellowship

2015 ASU, PAVE Arts Venture Incubator Seed Funding  
ASU, Student Enrichment Grant

2011 ASU, School of Music, Special Talent Award

2008 Dartmouth College Graduate Fellowship, (2006–8)

2002 Outstanding Computer Science Major, Loyola University New Orleans

## **PERFORMANCES AND EXHIBITIONS**

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### **Juried and Peer-reviewed Performances**

- 2021 International Computer Music Conference (ICMC) 2020/21  
Pontificia Universidad Católica de Chile, Santiago, Chile  
*Lament: An Interactive Cabaret Song*  
Conference for 2020 combined with 2021 due to COVID-19
- Society for Electroacoustic Music in the US (SEAMUS) Conference 2021  
Virtual Conference Hosted by Multiple Locations  
*Lament: An Interactive Cabaret Song*
- Art Lounge, Society for the Literature, Science and the Arts 2021  
Virtual Conference hosted by University of Michigan, Ann Arbor  
*Skin Hunger*, Performance version, with Brent Brimhall, Ru Ferguson, dancers
- 2020 New Musical Interfaces for Musical Expression Conference (NIME) Conference 2020  
July 2020, Royal Birmingham Conservatoire, Birmingham, UK  
*Machine Tango*, with Brent Brimhall, Argentine tango dancer  
Online presentation due to COVID-19.
- New York Electroacoustic Music Festival (NYCEMF) 2020  
June 14-21, 2020, New York University, New York, NY  
*Machine Tango*, with Brent Brimhall, Argentine tango dancer  
Online presentation due to COVID-19.
- Society for Electroacoustic Music in the US (SEAMUS) Conference 2020  
University of Virginia, Charlottesville, VA  
*Machine Tango*, with Brent Brimhall, Argentine tango dancer  
Online presentation due to COVID-19.
- Alliance of Women in Media Arts and Sciences (AWMAS) Conference 2020  
University of California, Santa Barbara, CA  
*Puente*, with Brent Brimhall, Argentine tango dancer
- 2019 International Conference on Tangible, Embedded, and Embodied Interactions (TEI)  
Tempe Center of the Arts, Tempe, AZ  
*Machine Tango*, with Brent Brimhall, Argentine tango dancer
- MOXsonic, Missouri Experimental Arts Festival  
University of Central Missouri Center for Music Technology, Warrensburg, MO  
*Machine Tango*, with Brent Brimhall, Argentine tango dancer
- 2018 Electronic Music Midwest Festival (EMM) 2018, Lewis University, Illinois  
*Puente: A Study in Interactive Tango Dance*, with Brent Brimhall, Argentine tango dancer
- International Computer Music Conference (ICMC) 2018, Daegu, Korea  
*Puente: A Study in Interactive Tango Dance*, with Brent Brimhall, Argentine tango dancer
- International Conference on Movement and Computing (MOCO) 2018  
Casa Paganini - Infomus, DIBRIS, University of Genoa, Italy  
*Puente: A Study in Interactive Tango Dance*, with Brent Brimhall, Argentine tango dancer  
*Interactive Tango Milonga* Demonstration as social dance installation
- Itinerant Performance Art Festival NYC, New York, NY  
*Puente: A Study in Interactive Tango Dance*, with Brent Brimhall, Argentine tango dancer
- 2016 International Conference on Live Interfaces (ICLI) 2016, University of Sussex, UK  
*Interactive Tango Milonga: Fragments*, with Brent Brimhall, Argentine tango dancer
- Society for Electroacoustic Music in the US (SEAMUS) Conference, 2016, USG, Georgia  
Electroacoustic Improvisation with gbjck trio (*Rawr!*, Justin Kennedy, voice, Garrett Johnson, cello)
- 2015 International Computer Music Conference (ICMC) 2015, UNT, Denton, TX  
*How to Speak Dinosaur: Courtship*, with David Earll, tuba
- 2009 New York Electroacoustic Music Festival, City University of New York  
*losing love in magnetic time*, CUNY Percussion Studio

- Vox Novus 60X60 Project, International and Evolution mixes, 2008, Order of Magnitude Mix, 2010  
*Places in Time become Magnetic*  
 2008 SEAMUS Conference, Salt Lake City, UT  
*Pop Presto No. 2*

### **Juried and Peer-reviewed Group Exhibitions and Installations**

- 2021 #social 2021, CICA Museum, Gyeonggi-do, Korea  
*Skin Hunger*  
 Society for Electroacoustic Music in the US (SEAMUS) Conference 2021  
 Virtual Conference Hosted by Multiple Locations  
*Skin Hunger*  
 2018 New Interfaces for Musical Expression Conference (NIME), Blacksburg, VA  
*Interactive Tango Milonga* as social dance installation (Curated/Juried Workshop)  
 2015 Ars Electronica Festival, CyberArts 2015, Linz, Austria  
*Rawr! A Study in Sonic Skulls* and Improvisational Performance, Sept. 5  
 New York City Electroacoustic Music Festival, New York, NY  
*Blown Away*, contact microphones and interactive video  
 2014 New Interfaces for Musical Expression (NIME) / BEAM Festival, London, UK  
*Rawr! A Study in Sonic Skulls*

### **Invited Performances**

- 2016 International Tuba Euphonium Conference, University of Tenn., Knoxville, TN  
*How to Speak Dinosaur: Courtship*, with David Earll, tuba  
 Frequency Festival, Constellation, Chicago, IL  
*losing love in magnetic time*, performed by Meehan/Perkins Duo  
 2015 Third Practice Festival, Richmond, VA  
*How to Speak Dinosaur: Courtship*, with David Earll, tuba  
 SSOO Festival, Flagstaff, AZ  
*Interactive Tango Milonga*, as performance, with Brent Brimhall, Argentine tango dancer  
 2011 Gowanus Wildlife Preserve Showcase, Spoke the Hub, Brooklyn, NY  
*Abacus for the Body*  
 2010 VCW Performance, Diapason Gallery, Brooklyn, NY  
*I'll huff and puff and I'll blow your house down!*, with Gennette Gill, Jacqueline Arias  
 Provocative Objects, Patricia Doran Gallery, Boston, MA  
*Volcadas con Silla*  
 2009 Juddertone Dance 2009, Boston University Theater, Boston, MA  
*Crowded*, with Nu Dance Theater  
 INsideOUT, Atlantic Center for the Arts, New Smyrna Beach, FL  
*Balancing Act*  
 The Murder Cabaret, The Tank, 45 Street Theater, New York, NY  
*Every Night I Lose Control*

### **Invited Group Exhibitions and Installations**

- 2022 *Terrestrial Voices*, AyarKut Foundation Commission  
 Virtual Exhibition, Yakutia, Sakha Republic, Russia  
*Recovering what we have not yet found*  
 2017 *Re-Embodied*, Telfair Museums, Jepson Center, Savannah, GA  
*Rawr! A Study in Sonic Skulls*  
 2016 Resonant Structures, Inter-space Gallery, New York, NY  
*Rawr! A Study in Sonic Skulls*

- EarFest 2016, Resonant Structures, Zuccaire Gallery, Stony Brook University, NY  
*Rawr! A Study in Sonic Skulls*
- 2015 Exhibiting Sound, University of Alberta, DC3 Art Projects Gallery, Edmonton, Alberta, CN  
*Rawr! A Study in Sonic Skulls*

### **Selected Performances**

- 2021 Art Faculty Show, Pollock Gallery, SMU, Dallas, TX  
*Hadrosaur Variations*
- 2019 Creative Computation Showcase, SMU, Dallas, TX  
*Lament: An Interactive Cabaret Song*
- 2018 Collabo Show, SMU, Dallas, TX  
*Machine Tango*, with Brent Brimhall, Argentine tango dancer
- Big Beat Down! Creative Computation Showcase, SMU, Dallas, TX  
*Puente: A Study in Interactive Tango Dance*, with Brent Brimhall, Argentine tango dancer
- 2017 Pointe Ensemble Performance, Caruth Auditorium, SMU, Dallas, TX  
 Solo and Group Improvisation with *Rawr!*
- 2016 IMM for IDD, Knights of Pythias Lounge, Tempe, AZ  
*Interactive Tango Milonga: Fragments*, with Brent Brimhall, Argentine tango dancer
- 2015 Phoenix Art Museum, Phoenix, AZ  
*How to Speak Dinosaur: Courtship*, with David Earll, tuba
- 2012 Modified Arts Gallery, Roosevelt Row, Feb-May, monthly, Phoenix, AZ  
*D&SPAIR Club Sonic and Movement Improvisation*
- Katzin Recital Hall, School of Music, ASU, Tempe, AZ  
*Telephone Tango*, performed by Laptop Orchestra of Arizona State
- 2011 Art in Motion, Apr. 15-17, 2011, Downtown Live, Jersey City, NJ  
*Art in Motion: The stories we are*, performed by myself and Insurgo State Project
- 2010 Triskelion, Jun. 3-5, 2010, Brooklyn, NY  
*Crowded*, with Nu Dance Theater, myself, live electronics/laptop, accordion, soprano voice
- 2009 *Every Night I Lose Control* tour, 2007-9  
 Monkeytown, The Tank (NYC), The Red Room (Baltimore, MD), The NightLight (Chapel Hill, NC), Outpost 186, The Lilypad, CyberArts Festival (Boston, MA), Firehouse 13 (Providence, RI), McGuffey Art Center (Charlottesville, VA), Princeton University, Hartt School of Music, The Lighthouse (Washington, DC)

### **Selected Exhibitions and Installations**

- 2021 *Skin Hunger* Telematic Installation  
 Concurrent and connecting five universities.  
 Hamon Library, SMU, Dallas, TX  
 University of Texas, Dallas, TX  
 University of North Texas, Denton, TX  
 Arizona State University, Tempe, AZ  
 Florida Southwestern State College, FL
- 2016 Tango For All, Phoenix, AZ  
*Interactive Tango Milonga*, as social dance installation for wheelchair tango
- El Abrazo Practica, Scottsdale, AZ  
*Interactive Tango Milonga*, as social dance installation
- ASU Global Institute of Sustainability Tenth Anniversary Celebration, Tempe, AZ  
*Rawr! A Study in Sonic Skulls*
- 2013 Cartographies, Solo Exhibition, Digital Culture Gallery, ASU, Tempe, AZ  
*Blown Away and In Transit*
- Microtonal Music Festival, ASU, Tempe, AZ  
*lo atamos con alambre*

## PUBLICATIONS

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### Conference Proceedings and Book Chapters (Peer-reviewed/Juried)

- Brown, C. (2020). Lament: An Interactive Cabaret Song. *Proceedings of the 2nd International Workshop on Movement and Computing - MOCO '20*, Jersey City, NJ. ACM Extended Abstract.
- Brown, C. & Paine, G. (2019) A Case Study in Collaborative Learning via Participatory Music Interactive Systems: Interactive Tango Milonga. In Holland, S., Wilkie, K., Mudd, T., Wanderley, M., McPherson, A. (Eds.), *New Directions in Music and Human-Computer Interaction*. London: Springer.
- Brown, C. (2019). Machine Tango: An Interactive Tango Dance Performance. *Proceedings of the 13<sup>th</sup> ACM International Conference on Tangible, Embedded and Embodied Interaction- TEI '19*, Tempe, AZ, Arizona State University. ACM Extended Abstract.
- Brown, C. (2018). Interactive Tango Milonga: Designing DMIs for the Social Dance Context. *Proceedings of the 18<sup>th</sup> International Conference on New Interfaces for Musical Expression - NIME '18*, Blacksburg, VA, Virginia Tech.
- Brown, C., & Paine, G. (2015). Towards an Interactive Tango Milonga. *Proceedings of the 41st International Computer Music Conference - ICMC '15*, Denton, TX, University of North Texas.
- Brown, C., & Paine, G. (2015). Interactive Tango Milonga. *Proceedings of the 2nd International Workshop on Movement and Computing - MOCO '15*, Vancouver, British Columbia, Simon Fraser University, 17-20. doi:10.1145/2790994.2791013.
- Brown, C., Razaque, S., & Paine, G. (2015). Rawr! Study in Sonic Skulls: Embodied Natural History. In *Proceedings of the International Conference on New Interfaces for Musical Expression – NIME '15*, Baton Rouge, LA, Louisiana State University, 5-10.

### Workshop Papers (Peer-reviewed/Juried)

- Brown, C. & Paine, G. (2016). Digital Musical Instruments for Participatory Music: Designing Internal Experience. Music and HCI Workshop at ACM 33<sup>rd</sup> Human Factors in Computing Systems Conference 2016 (CHI 2016), San Jose, CA

### Music Publications (Peer-reviewed/Juried)

- 2015 *How to Speak Dinosaur* included on ICMC 2015 DVD *Looking Back, Looking Forward*

### Conference Proceedings (Invited)

- Brown, C. (2021). Skin Hunger. *Proceedings of the 19<sup>th</sup> International Conference on New Interfaces for Musical Expression - NIME '2021*, China. Work-in-Progress Showcase Proceedings Extended Abstract.
- Brown, C. (2020). Machine Tango. *Proceedings of the 18<sup>th</sup> International Conference on New Interfaces for Musical Expression - NIME '2020*, Birmingham, UK. Music Proceedings Extended Abstract.

## PRESENTATIONS

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### Peer-reviewed/Juried

- 2021 SloMoCo (8<sup>th</sup> International Movement and Computing Workshop 2021)  
 Summer #1: Living Code and Sharing Abundance. Presentation on *Skin Hunger*.  
 New Musical Interfaces for Musical Expression Conference (NIME) Conference 2021  
 New York University Shanghai, Shanghai, China, Work-in-Progress Showcase  
*Skin Hunger*, with Ira Greenberg and Melanie Clemmons  
 Online presentation due to COVID-19.
- 2020 Lament: An Interactive Cabaret Song. *7th International Workshop on Movement and Computing – MOCO '20*, Jersey City, NJ. Poster Presentation.

- 2018 Interactive Tango Milonga: Designing DMIs for the Social Dance Context. *18<sup>th</sup> International Conference on New Interfaces for Musical Expression - NIME '18*, Blacksburg, VA, Virginia Tech. Poster Presentation.
- 2015 Towards an Interactive Tango Milonga. *41st International Computer Music Conference - ICMC '15*, Denton, TX, University of North Texas. Short Paper Presentation
- Interactive Tango Milonga. *2nd International Workshop on Movement and Computing - MOCO '15*, Vancouver, British Columbia, Simon Fraser University. Short Paper Presentation.
- Rawr! Study in Sonic Skulls: Embodied Natural History. *International Conference on New Interfaces for Musical Expression – NIME '15*, Baton Rouge, LA, Louisiana State University. Long Paper Presentation.

### Invited Talks, Guest Lectures

- 2021 “Becoming Hadrosaur: Musical Instruments as a Window into Natural History”, Opening talk, Shifting Praxis in Artistic Research: Research-Creation Symposium, University of Alberta, Edmonton, Alberta, CN
- 2017 “Rawr! A Study in Sonic Skulls”, Artist Talk and Performance, PULSE Art + Technology Festival, Jepson Center, Telfair Museums, Savannah, GA
- 2016 “Interactive Tango Milonga”, Poster Presentation and Demo, International Conference for Live Interfaces, University of Sussex, Brighton, UK
- 2015 “Rawr! A Study in Sonic Skulls”, DE Shaw Research, Inc., New York, NY
- 2014 “Interactive Tango Milonga”, Centro de Experimentación e Investigación en Artes Electrónicas, Universidad de Tres Febrero, Buenos Aires, Argentina

### Workshops

- 2016 Wheelchair Tango Workshops and Practica, Tango for All, Tempe, AZ
- 2014 Experimental Sound and Movement Workshop, Buenos Aires (2014), Tempe, AZ (2015)
- 2011 Argentine Tango Workshop for Beginners, Roanoke, VA

## TEACHING EXPERIENCE

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### Instructor

- 2017- Southern Methodist University, Dallas, TX, Center of Creative Computation  
 CRCP 1310 Creative Coding I (Fall 2017, 2021 Spring 2020, 2022)  
 CRCP 1330 Sound and Code (Spring 2018, 2019, 2020, 2021, 2022)  
 CRCP 3330 Artificial Intelligence and Creative Composition (Fall 2017, 2018, 2019, 2020)  
 CRCP 3343 Contemporary Interactive Digital Performance (Spring 2018)  
 CRCP 4391 Special Topics: Collaborative Projects (Spring 2021)  
 CRCP 5350 Creative Motion Capture (Fall 2018, 2019, 2020)

### Teaching Assistantships

- 2011-6 Arizona State University, Tempe, AZ School of Arts, Media, and Engineering  
 AME 385/386/485 Collaborative Projects and Capstone (Fall 2015–Spring 2016)  
 AME 230 Programming for Media Arts (Spring 2016)  
 MDC 311 Composing and Performing for Hybrid Ensembles (Fall 2011–12, 2015)  
 MDC 494/598 Advanced Interactive Sound (Spring 2015)  
 MDC 211 Introduction to Digital Audio (Spring 2012–13)
- 2007 Dartmouth College, Hanover, NH, Electroacoustic Music Program  
 Music 3 Music and Technology, (Fall 2007)
- 2002-3 University of North Carolina, Chapel Hill, NC, Department of Computer Science  
 COMP 410 Data Structures, C++ (Spring 2003)  
 COMP 110 Introduction to Programming, Java (Fall 2002)

## Teaching Interests

Interactive Sound and New Musical Interfaces; Developing NIMEs for Participatory Music; Music, Movement, and Computing; Designing Experiential Systems; Music Cognition and Perception; Computer Vision and Motion Tracking; Laptop Ensembles; The Historical and Social Context of Argentine Tango; History of Experimental, Electroacoustic and Interactive Music; Software Engineering for Interactive Systems; Digital Signal Processing for Sound Applications; Experimental Design for Assessing Media Systems; Physical Computing for Media Art Applications; Digital Sound and Recording; Designing for Participatory Music Applications; Coding for Visual Arts; Algorithmic Music; Interactive Dance; Music Composition; Experimental Sound and Movement Improvisation

## PROFESSIONAL AUDIO AND SOFTWARE EXPERIENCE

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- 2008-10 Audio Software Developer, New York, NY  
Scratch DJ Academy, LLC.
- 2006–8 Audio Engineer, Audio Systems Researcher, Hanover, NH  
Freelance, Clients include: The Response Network LLC, Dartmouth College Music Dept.
- 2003–6 Software Developer, Durham, NC  
CogniSyst, Inc.

## SELECTED MEDIA COVERAGE

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- 2020 *International Alliance of Women in Music Journal*, “Inventing Musical Instruments”, C. Brown (Invited article). Fall Issue.
- 2017 *Connect Savannah*, Savannah, GA, “How to Speak Dinosaur” R. Flora. Jan. 4, 2017. Cover story.
- 2016 *Quo*, Science and Technology Magazine and Website, Spain, “Tú hablas dino?” (“Do you speak dino?”). Feb. 18, 2016. <http://www.quo.es/ciencia/asi-hablarian-los-dinosaurios>
- 2015 *Here and Now*, National Public Radio, Boston, MA. “Recreating Dinosaur Sounds With A Musical Twist. A. Cline (Producer and Narrator), Nov. 6, 2015. <http://hereandnow.wbur.org/2015/11/06/dinosaur-skull-instrument>
- Centrum Druki 3D*, Polish 3D Printing website, “Druk 3D pozwolił odtworzyć dźwięki wydawane przez dinozaury.” (“3D printing helped recreate the sounds made by dinosaurs”). L. Dlugosz. Nov. 20, 2015. <http://centrumdruku3d.pl/druk-3d-pozwolil-odtworzyc-dzwieki-wydawane-przez-dinozaury/>
- 3DPrint.com*, 3D Printing website, “3D Printing (re)Produces 65 Million Year Old Mating Call”. H. R. Mendoza. Nov. 19, 2015. <http://3dprint.com/106320/3d-printed-dino-skull-sound/>
- Vue Weekly*, Edmonton, AB. “Exhibiting Sound expands the idea of gallery art.” P. Blinov. Oct. 15, 2015. <http://www.vueweekly.com/exhibiting-sound-expands-the-idea-of-gallery-art/>
- Rzeczpospolita*, Warsaw, Poland. “Ars Electronica – wizje i żarty.” (“Ars Electronica - Visions and Jokes”) M. Kuc. Sep. 9, 2015. <http://www4.rp.pl/Sztuka/309069924-Ars-Electronica--wizje-i-zarty.html>.
- Hispasonic, Fotograma Sonoro*. Spanish language computer music website. “Experimentación con el universo sonoro a través de ocho obras contemporáneas. (“Experimentation with the universe of sound through contemporary works”). M. Isaza. Aug. 8, 2015. <http://www.hispasonic.com/blogs/experimentacion-universo-sonoro-traves-ocho-obras-contemporaneas/40999>.

## SELECTED ENSEMBLES

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- 2018 Point (SMU Improvisation Ensemble), Kim Corbet, director
- 2015 gbjck (Improvisational trio) <http://www.garrettlaroyjohnson/gbjck>  
with Justin Kennedy, Garrett Johnson
- 2011–15 Laptop Orchestra of Arizona State (LORkAS) <http://lorkas.org>

- 2009-10 Woo ! Brown Duo (Improvisatory duo)  
with Justin Woo
- 2008 ElectroCab (Mixed-genre composer collective)  
with Carmen Caruso, John Arroyo

## **ORGANIZATIONAL AND LEADERSHIP EXPERIENCE**

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- 2017- Producer/Organizer/Founder, Creative Computation Showcase (<http://c3smu.org>), SMU
- 2012-13 Director, Laptop Orchestra of Arizona State- LOrkAS,  
President, sArts, Media, and Engineering Student Association, ASU
- 2012 Co-founder, co-curator, co-producer, Seven Ate Nine, 2012  
Series of monthly performances and tango milongas at Modified Arts Gallery, Phoenix, AZ
- 2008-9 Founder, Curator, Producer, Sidewalk Tzara  
A monthly experimental performance series at The Outpost, Cambridge, MA

## **ADDITIONAL SKILLS AND TRAINING**

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### **Selected Technical Skills**

*Languages:* C/C++, Java, Python, Smalltalk, Visual Basic, UML, SQL, Pascal/Delphi

*Music Technologies:* MAX/MSP, SuperCollider, Tonejs, Jamoma, OSC, LilyPond, CoreAudio, DirectX,  
OpenAL, STK, FMOD, RtAudio, IRCAM tools, VST API

*Applications:* Ableton Live, Max4Live, Apple Logic, Sibelius, Finale, Protools, Digital Performer, Adobe  
Creative Suite (Photoshop, Premiere, etc.), Matlab/Octave, XCode, Visual Studio, Eclipse

*Physical Computing:* AVR/micro-processor, Arduino, accelerometers, contact mics, servos,  
solenoids, FSRs, inertial sensors (eg. Shimmer3, x-osc),

*Multimedia Libraries/Platforms:* Cinder, Processing, OpenGL, JUCE

*Motion Capture:* OpenCV, PoseNet, OpenNI/Kinect, OptiTrack, Obbrec, Notch Technology

*Mobile Platforms:* iOS, Android API

*Web Technologies:* JavaScript, Nodejs, Wordpress, HTML/CSS

*Machine Learning:* Tensorflow, Keras, RNNs

### **Selected Argentine Tango Dance Community Performances**

#### **As part of Evolution Tango Performance Group**

- 2021 Evolution Tango Showcase, Latino Cultural Center, Dallas, TX
- 2020 Evolution Tango Showcase, Virtual Streaming Showcase, Dallas, TX
- 2019 Heart House Benefit, Fair Park, Women's Museum, Dallas, TX  
VAMAS (Vietnamese American Mutual Assistance & Services) 15<sup>th</sup> Anniversary Benefit, Dallas, TX  
Evolution Tango Showcase, Latino Cultural Center, Dallas, TX
- 2018 Evolution Tango Showcase, Latino Cultural Center, Dallas, TX

### **Selected Argentine Tango Dance Experience**

- 2017-present Private and Group Lessons with George and Jairelbhi Furlong, Dallas, TX
- 2017 Veronica Vazquez y Damian Mechura Workshop, Z Room, Tempe, AZ  
Cristina Sosa & Daniel Nacucchio, Z Room, Tempe AZ
- 2016 Private and Group Lessons with Stephanie Berg and Nicholas Tapias, Tempe AZ  
Veronica Vazquez y Damian Mechura Workshop, Z Room, Tempe AZ  
Argentine Tango Workshop with Corina Herrera y Octavio Fernandez  
Tucson Tango Festival, Volunteer with ASU Tango Club, 2013, 2015
- 2015 Albuquerque Tango Festival, Volunteer with ASU Tango Club  
Macana Brothers, private lesson
- 2014 DNI Tango, Buenos Aires, private lessons
- 2013 Nick Jones and Diana Cruz Workshop, Triangle Tango Society, Durham, NC  
Mariano "Chico" Frumboli y Juana Sepulveda Workshop, ASU, 2013



2012	ASU Tango Festival Argentine Tango II with Daniela Borgialli, ASU
2008-11	Triangulo Tango Studio, New York City, classes
2008	Pablo Veron Workshop, Boston Tango Society

### **Instrumental and Movement Skills**

Soprano (Expert), Guitar (Proficient), Piano Accordion (Proficient), Post-Contemporary Modern Dance, Contact Improvisation

## **MUSICAL AND INTERACTIVE WORK**

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### **Projects**

#### *Dinosaur Choir* (2021–present)

A continuation of *Rawr! A Study in Sonic Skulls*. Installations and Musical Instruments allowing users to give voice to extinct dinosaurs. Instruments are created for community music contexts, exploring the idea of choirs of dinosaurs.

#### *Skin Hunger* (2020–21)

Collaboration with Ira Greenberg, Melanie Clemmons (2020 - 2021), and Brent Brimhall  
A series of installations and performances allowing remote and in-person participants to create sound and evolve organisms when they virtually touch each other. Current output from this project includes an interactive website (<https://skinhunger.org>), a telematic installation, and a telematic performance.

#### *Interactive Tango Milonga* (ITM) (2013 – present, but on-hold during pandemic)

Documentation and Portfolio: <http://www.courtney-brown.net/?p=24>  
Argentine tango dancers are given agency over music in real-time in a social dance context.

#### *Whooo! A Rumination in Sonic Skulls* (On-hold)

Collaboration with Ira Greenberg and Sharif Razzaque  
Installation and Musical Instrument allowing users to give voice to an imaginary descendent of an owl.

#### *Rawr! A Study in Sonic Skulls* (2011–2016)

Collaboration with Sharif Razzaque, co-engineer  
Documentation and Portfolio: <http://www.courtney-brown.net/?p=21>  
Installation and Musical Instrument allowing users to give voice to an extinct dinosaur.

### **Selected Compositions**

- 2022 *Hadrosaur Variations II*, a structured improvisation for *Rawr!*, soprano, and laptop  
*Recovering what we have not yet found*, soprano voices (4-6) and fixed media
- 2021 *Hadrosaur Variations*, a structured improvisation for *Rawr!*, soprano, and laptop
- 2019 *Lament*, a structured improvisation for soprano and skeletal motion capture system
- 2018 *Machine Tango* for Argentine tango dance couple and interactive tango system  
*Puente: A Study in Interactive Tango* for Argentine tango dance couple in ITM system
- 2015 *pretending in magnetic time* for bassoon, marimba, and fixed media
- 2013 *How to Speak Dinosaur: Courtship* for hadrosaur skull instrument, tuba, and fixed media
- 2011 *Telephone Tango* for laptop orchestra  
Collaboration with Ryan Spicer, co-software developer  
*Abacus for the Body* for percussive bicycle robot  
Mounted amplified bicycle wheels controlled by solenoids and OSC  
Installation and improvisation with voice and accordion
- 2010 *Volcadas con Silla* (“tips over with chair”) for dancing chair robot and amplified floor  
Robotic chair with mounted servos, controlled by OSC via WiiMote  
*I’ll huff and puff and I’ll blow your house down!* for 3 video performers and live electronics

- 2009 *in which we become familiar* for violin, contrabass, and two flamenco dancers  
*Balancing Act II* for broomstick, accelerometer, and live electronics  
*Sound. Picture. Coif.* for hairstylist, live electronics, and video  
 Collaboration with Kristina Wolfe (video) and Alissandra Hipona (hairstylist)
- 2008 *Every Night I Lose Control*  
 Song Cycle and Solo Cabaret Act for voice, accelerometer and live electronics  
*Balancing Act* (2008) for voice, accelerometer, and live electronics  
*The Error of my Ways* (2008) for voice, accelerometer, and live electronics  
*Study in Losing Control II* (2007) for voice, accordion (optional), and live electronics  
*Things that Breathe* (2007) for voice and live electronics
- 2007 *losing love in magnetic time* for fixed media, marimba, and vibraphone  
*Places in Time become Magnetic* for fixed media  
*this and the day after* for two trumpets and four-hand piano  
*Pop Presto #2* for fixed media

### **Installation Art**

- 2013 *Blown Away* for 4-12 contact microphones, speakers, and projected video  
*In Transit* for laptop, iOS devices, and projected video  
*lo atamos con alambre* (“we tied it with wire”) for eight-channel speakers  
 Collaboration with Garrett Johnson, co-composer

### **Interactive Dance Work**

- 2012 *D&SPAIR (Dance & Sonic Performance Art Improvisation Research) Club*  
 Improvisational collaboration with Julie Cruse, Brent Brimhall, Julie Akerly
- 2011 *Art in Motion: The stories we are*  
 Collaboration with Insurgo Stage Project, artistic director Avianna Perez
- 2009 *Crowded* for dancer, a pile of shoes, voice, accordion and live electronics  
 Collaboration with choreographer Eva Perrotta and Nu Dance Theater

### **PROFESSIONAL SERVICE**

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- 2022 (Upcoming) Reviewer, Music, ICMC Conference 2022  
 (Upcoming) Reviewer, Papers, NIME Conference 2022
- 2021 Reviewer, Music, ICMC Conference 2021  
 Reviewer, Papers, NIME Conference 2021
- 2020 Reviewer, Papers, NIME Conference 2020  
 Reviewer, Music, ICMC Conference 2020
- 2019 Reviewer, Papers, NIME Conference 2019  
 Reviewer, Doctoral Consortium, ACM International Conference on Movement and Computing 2019
- 2018 Reviewer, Music, NIME Conference 2018
- 2017 Reviewer, Papers and Musical Performances, SEAMUS Conference 2018
- 2016 Student Volunteer, ACM 3<sup>rd</sup> Human Factors in Computing Systems Conference (CHI)  
 Extended Programme Committee, 3<sup>rd</sup> International Conference on Live Interfaces, 2016  
 Reviewer, Travel Grants, ASU Graduate & Professional Student Association, Fall 2015 – Spring 2016
- 2015 Reviewer, Interview Travel Grant, ASU Graduate & Professional Student Association, Spring 2015

### **LANGUAGE PROFICIENCY**

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English (native language), Spanish (conversational and intermediate reading and writing)

### **PROFESSIONAL MEMBERSHIPS**

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ICMA – International Computer Music Association  
ACM – Association for Computing Machinery  
SEAMUS – Society for Electroacoustic Music in the United States  
ACF – American Composers Forum  
IAWM – International Alliance of Women in Music  
SAM – Society for American Music  
Phi Kappa Phi – Honor Society

**REFERENCES**

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Available upon request.